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### 1 [Analyzing the economic efficiency of eBay-like online reputation reporting mechanisms](#)



Chrysanthos Dellarocas

October 2001 EC '01: Proceedings of the 3rd ACM conference on Electronic Commerce

Publisher: ACM

Full text available: pdf(253.91 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 98, Citation Count: 15

This paper introduces a model for analyzing marketplaces, such as eBay, which rely on binary reputation mechanisms for quality signaling and quality control. In our model sellers keep their quality private and choose what quality to advertise. ...

Keywords: electronic commerce, reputation systems, trust in electronic markets

### 2 [Customized Internet news services based on customer profiles](#)



Hung-Jen Lai, Ting-Peng Liang, Y. C. Ku

September 2003 ICEC '03: Proceedings of the 5th international conference on Electronic commerce

Publisher: ACM

Full text available: pdf(94.31 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 77, Citation Count: 0

The widespread adoption of the Internet and information technologies has changed the nature of many industries through easy collection, analysis, and sharing of information. This transformation information processing makes rapid response and product ...

Keywords: electronic commerce, news recommendation, product customization

### 3 [Applying Collaborative Filtering for Efficient Document Search](#)

Seikyung Jung, Juntae Kim, Jonathan L. Herlocker

September 2004 WIC '04: Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available:



pdf(112.11 KB)


[Publisher Site](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 34, Citation Count: 1

This paper presents the SERF (System for Electronic Recommendation Filtering) which is a collaborative filtering system that recommends context-sensitive, high-quality information sources.

for document search. Collaborative filtering systems remove the ...

4 Toward trustworthy recommender systems: An analysis of attack models and algorithm robustness



Bamshad Mobasher, Robin Burke, Runa Bhattacharya, Chad Williams

October 2007 ACM Transactions on Internet Technology (TOIT), Volume 7 Issue 4

Publisher: ACM

Full text available: pdf(656.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 70, Downloads (12 Months): 486, Citation Count: 0

Publicly accessible adaptive systems such as collaborative recommender systems present a security problem. Attackers, who cannot be readily distinguished from ordinary users, may inject biased profiles in an attempt to force a system to "adapt" ...

Keywords: Profile injection attacks, attack detection, collaborative filtering, recommender system shilling

5 Incorporating contextual information in recommender systems using a multidimensional approach



Gediminas Adomavicius, Ramesh Sankaranarayanan, Shahana Sen, Alexander Tuzhilin

January 2005 ACM Transactions on Information Systems (TOIS), Volume 23 Issue 1

Publisher: ACM

Full text available: pdf(423.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 92, Downloads (12 Months): 533, Citation Count: 10

The article presents a multidimensional (MD) approach to recommender systems that can provide recommendations based on additional contextual information besides the typical information on users and items used in most of the current recommender systems. ...

Keywords: Recommender systems, collaborative filtering, context-aware recommender system, multidimensional data models, multidimensional recommender systems, personalization, rating estimation

6 Ontological user profiling in recommender systems



Stuart E. Middleton, Nigel R. Shadbolt, David C. De Roure

January 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 1

Publisher: ACM

Full text available: pdf(358.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 93, Downloads (12 Months): 630, Citation Count: 13

We explore a novel ontological approach to user profiling within recommender systems, working the problem of recommending on-line academic research papers. Our two experimental systems Quickstep and Foxtrot, create user profiles from unobtrusively ...

Keywords: Agent, machine learning, ontology, personalization, recommender systems, user modelling, user profiling

7 Capturing interest through inference and visualization: ontological user profiling in recommender systems

Stuart E. Middleton, Nigel R. Shadbolt, David C. De Roure



October 2003 K-CAP '03: Proceedings of the 2nd international conference on Knowledge capture

Publisher: ACM

Full text available: pdf(362.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 162, Citation Count: 2

Tools for filtering the World Wide Web exist, but they are hampered by the difficulty of capturing preferences in such a diverse and dynamic environment. Recommender systems help where explicit search queries are not available or are difficult to ...

Keywords: knowledge capture, machine learning, ontology, profile visualization, recommender systems, user modelling, user profiling

8

[Is seeing believing?: how recommender system interfaces affect users' opinions](#)



Dan Cosley, Shyong K. Lam, Istvan Albert, Joseph A. Konstan, John Riedl

April 2003 CHI '03: Proceedings of the SIGCHI conference on Human factors in computing system

Publisher: ACM

Full text available: pdf(295.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 214, Citation Count: 10

Recommender systems use people's opinions about items in an information domain to help people choose other items. These systems have succeeded in domains as diverse as movies, news articles, Web pages, and wines. The psychological literature on conformity ...

Keywords: collaborative filtering, conformity, e-commerce, persuasive computing, recommendation systems

9

[Adaptive web search based on user profile constructed without any effort from users](#)



Kazunari Sugiyama, Kenji Hatano, Masatoshi Yoshikawa

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web

Publisher: ACM

Full text available: pdf(311.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 558, Citation Count: 27

Web search engines help users find useful information on the World Wide Web (WWW). However, when the same query is submitted by different users, typical search engines return the same results regardless of who submitted the query. Generally, each user ...

Keywords: WWW, information retrieval, user modeling

10

[Evaluating collaborative filtering recommender systems](#)



Jonathan L. Herlocker, Joseph A. Konstan, Loren G. Terveen, John T. Riedl

January 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 1

Publisher: ACM

Full text available: pdf(253.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 339, Downloads (12 Months): 1911, Citation Count: 37

Recommender systems have been evaluated in many, often incomparable, ways. In this article, we review the key decisions in evaluating collaborative filtering recommender systems: the user tasks being evaluated, the types of analysis and datasets being ...


Keywords: Collaborative filtering, evaluation, metrics, recommender systems

11 Robustness of collaborative recommendation based on association rule mining

J. J. Sandvig, Bamshad Mobasher, Robin Burke

October 2007 RecSys '07: Proceedings of the 2007 ACM conference on Recommender systems

Publisher: ACM

Full text available:  pdf(619.14 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 37, Downloads (12 Months): 250, Citation Count: 0

Standard memory-based collaborative filtering algorithms, such as  $k$ -nearest neighbor, are quite vulnerable to profile injection attacks. Previous work has shown that some model-based techniques are more robust than  $k$ -nn. Model abstraction ...


Keywords: association rule mining, collaborative filtering, data mining, recommender systems, security

12 Quantitative Agent Service Matching

Xiaocheng Luan, Yun Peng, Timothy Finin

September 2004 WIC '04: Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available:  pdf(150.42 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 14, Citation Count: 0


The ultimate goal of service matching is to find the service provider(s) that would perform tasks given description with the best overall degree of satisfaction. However, service description matching solves only part of the problem. Agents that match ...

13 An approach for combining content-based and collaborative filters

Qing Li, Byeong Man Kim

July 2003 Proceedings of the sixth international workshop on Information retrieval with Asian languages - Volume 11, Volume 11

Publisher: Association for Computational Linguistics

Full text available:  pdf(128.71 KB)Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 124, Citation Count: 0


In this work, we apply a clustering technique to integrate the contents of items into the item-based collaborative filtering framework. The group rating information that is obtained from the clustering result provides a way to introduce content information ...

14 Content-based music filtering system with editable user profile

Yoshinori Hijikata, Kazuhiro Iwahama, Shogo Nishida

April 2006 SAC '06: Proceedings of the 2006 ACM symposium on Applied computing

Publisher: ACM

Full text available:  pdf(1.61 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 235, Citation Count: 1

Information filtering systems, which recommend appropriate information to users from enormous amount of information, are becoming popular. One method of information filtering is content-based filtering that compares a user profile with a content model. ...

Keywords: content-based filtering, customization, decision tree, music recommendation, user p

# 15 Recommendations in taste related domains: collaborative filtering vs. social filtering



Georg Groh, Christian Ehmig

November 2007 GROUP '07: Proceedings of the 2007 international ACM conference on Conference i  
supporting group work

Publisher: ACM

Full text available: pdf(366.73 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 199, Citation Count: 0

We investigate how social networks can be used in recommendation generation in taste related domains. Social Filtering (using social networks for neighborhood generation) is compared to Collaborative Filtering with respect to prediction accuracy in the ...

Keywords: collaborative filtering, social filtering, social networks, taste related domains

# 16 Taxonomy-driven computation of product recommendations



Cai-Nicolas Ziegler, Georg Lausen, Lars Schmidt-Thieme

November 2004 CI KM '04: Proceedings of the thirteenth ACM international conference on Informati  
and knowledge management

Publisher: ACM

Full text available: pdf(269.57 KB)

Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 136, Citation Count: 6

Recommender systems have been subject to an enormous rise in popularity and research intere  
over the last ten years. At the same time, very large taxonomies for product classification are  
becoming increasingly prominent among e-commerce systems for ...

Keywords: machine learning, recommender systems, taxonomies

# 17 Generating semantically enriched user profiles for Web personalization



Sarabjot Singh Anand, Patricia Kearney, Mary Shapcott

October 2007 ACM Transactions on Internet Technology (TOIT), Volume 7 Issue 4

Publisher: ACM

Full text available: pdf(396.97 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 77, Downloads (12 Months): 549, Citation Count: 0

Traditional collaborative filtering generates recommendations for the active user based solely on  
ratings of items by other users. However, most businesses today have item ontologies that prov  
useful source of content descriptors that can be used ...

Keywords: Collaborative filtering, evaluation, implicit ratings, personalization, similarity metric

# 18 Collaborative recommendation: A robustness analysis



Michael O'Mahony, Neil Hurley, Nicholas Kushmerick, Guénolé Silvestre

November 2004 ACM Transactions on Internet Technology (TOIT), Volume 4 Issue 4

Publisher: ACM

Full text available: pdf(452.49 KB)

Additional Information: full citation, abstract, references, cited by, index term

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 173, Citation Count: 14

Collaborative recommendation has emerged as an effective technique for personalized information access. However, there has been relatively little theoretical analysis of the conditions under which this technique is effective. To explore this issue, we ...

**Keywords:** Collaborative recommendation, machine learning, robustness

## 19 CACM: A Collaborative Recommendation System Based on Modal Symbolic User Profile

Byron Leite Dantas Bezerra, Francisco de Assis T. Carvalho, Valmir Macario Filho

December 2006 WIC '06: Proceedings of the 2006 IEEE/WIC/ACM International Conference on Web Intelligence

Publisher: IEEE Computer Society

Full text available:  pdf(134.91 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 104, Citation Count: 0


Recommendation Systems have become an important tool to cope with the information overload problem by acquiring information about the user behavior. However, the process of getting user personal data may vary in many different ways, and can be done implicitly ...

## 20 Socialtrust: tamper-resilient trust establishment in online communities

James Caverlee, Ling Liu, Steve Webb

June 2008 JCDL '08: Proceedings of the 8th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available:  pdf(2.22 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 17, Citation Count: 0

Web 2.0 promises rich opportunities for information sharing, electronic commerce, and new modes of social interaction, all centered around the "social Web" of user-contributed content, social annotations, and person-to-person social connections. But ...

**Keywords:** deception, myspace, social networks, spam, trust, web 2.0

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